AMENDMENTS TO THE CLAIMS

1-97. (Canceled)

98. (Currently Amended) A method of forming an image sensor comprising the steps of:

forming a pixel within a substrate;

forming an isolation region adjacent to said pixel; and

forming an isolation gate over said isolation region and over at least a portion of a connection region formed adjacent to said isolation region.

- 99. (Original) The method of claim 98 wherein said isolation gate has the same conductivity type as at least one transistor gate of said pixel.
- 100. (Original) The method of claim 98 wherein a length of said isolation gate is adjusted to minimize cross talk between adjacent pixels.
- 101. (Original) The method of claim 98 wherein said isolation region is an active area between adjacent pixels.

102. (Currently Amended) A method of operating an image sensor, said image sensor comprising a pixel, an isolation region adjacent said pixel, and an isolation gate provided over said isolation region and adjacent to said pixel said method comprising the steps step of:

forming a separation between a photodiode region of said pixel and said isolation region by applying a voltage to said isolation gate.

- 103. (Original) The method of claim 102 wherein said method of forming a separation comprises accumulating holes in a connection region between said photodiode region and said insulation region.
- 104. (Original) The method of claim 102 comprising applying a grounded potential to said isolation gate.
- 105. (Original) The method of claim 102 comprising applying a negative potential to said isolation gate.
- 106. (Original) The method of claim 102 wherein said isolation region is an active area formed between adjacent pixels.

107. (Original) A method of forming an image sensor comprising:

forming an active layer of a first conductivity type on a substrate;

forming a photosensor in said active layer; and

forming an isolation gate over at least a portion of said active layer adjacent said photosensor.

- 108. (Original) The method of claim 107 wherein said active layer adjacent said photosensor is an isolation region.
- 109. (Original) The method of claim 108 comprising forming said isolation gate over a substantial portion of said isolation region.
- 110. (Original) The method of claim 109 further comprising forming a length of said isolation gate to minimize cross-talk between adjacent pixels.
- 111. (Original) The method of claim 107 wherein forming said photosensor further comprises forming a p-n-p junction region in said active layer by forming a photo region of a second conductivity type

overlying said active layer of said first conductivity type and forming a surface layer of said first conductivity type overlying said photo region.

- 112. (Original) The method of claim 107 wherein forming said photosensor comprises forming a photodiode.
- 113. (Original) The method of claim 107 wherein forming said photosensor comprises forming a photogate.
- 114. (Original) The method of claim 107 wherein forming said photosensor comprises forming a photoconductor.
- 115. (Original) The method of claim 107 wherein forming said photosensor comprises forming a p-n-p diode.
- 116. (Original) The method of claim 107 wherein forming said photosensor comprises forming a buried diode.
- 117. (Original) The method of claim 107 wherein said image sensor is a CCD sensor.

118. (Original) The method of claim 107 wherein said image sensor is a CMOS image sensor.

119. (Original) A method of forming a CMOS image sensor comprising:

forming a CMOS image sensor pixel within a substrate; said pixel being formed by:

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forming a photosensitive area for accumulating photo-generated charge;

forming a floating diffusion region adjacent one side of said photosensitive area;

forming an output transistor for reading out charge from said floating diffusion region;

forming a read out circuit comprising at least said output transistor;

forming an isolation region around at least a portion of said pixel; and

forming an isolation gate over at least a portion of said isolation region.

120. (Original) The method of claim 119 wherein said isolation region is an active area.

- 121. (Original) The method of claim 120 comprising forming said isolation gate over a substantial portion of said isolation region.
- 122. (Original) The method of claim 121 further comprising forming a length of said isolation gate to minimize dark current in said image sensor.
- 123. (Original) The method of claim 119 wherein said output transistor is a transfer gate.
- 124. (Original) A method of operating an integrated circuit comprising:

forming a semiconductor substrate;

forming a plurality of image sensor pixels in said substrate; interconnecting said pixels into a circuit;

forming each of said pixels such that each of said pixels comprises a photosensitive region and a floating diffusion region;

forming an isolation region between adjacent pixels;

forming at least one isolation gate over at least a portion of said isolation region;

biasing said isolation gate to a constant voltage; and reverse biasing said isolation region by applying said constant voltage.

125. (Original) The method of claim 124 further comprising forming a length of said isolation gate to minimize cross-talk between said adjacent pixels.

126. (Original) The method of claim 124 wherein said isolation region is an active area of said substrate.